

SMALL PASSENGER VESSEL < 100 G.T.
FIRE PROTECTION (46 CFR 181.400-500) PLAN REVIEW SHEET

Rev2: Feb99

Vessel Name: _____ Date review started: _____

Date submitted: _____ Date review complete: _____

Reviewed by: _____

Space containing fixed system being reviewed:

- | | |
|--|--|
| <input type="checkbox"/> Propulsion machinery - Size: _____ cuft | <input type="checkbox"/> Internal combustion space (>50 hp) – Size: _____ cuft |
| <input type="checkbox"/> Oil fired boiler space – Size: _____ cuft | <input type="checkbox"/> Gasoline machinery space – Size: _____ cuft. |
| <input type="checkbox"/> Gasoline fuel tank space - Size: _____ cuft | <input type="checkbox"/> Paint locker – Size: _____ cuft. |
| <input type="checkbox"/> Liquor store (>80 proof, > 2.5 gal pkg) – Size: _____ | cuft. |

Which fixed method is used:

☐ ☐ ENGINEERED SYSTEM: (space >6K cuft – Must be reviewed by G-MSO).

Fixed gas fire extinguishing system, automatic discharge upon heat detection in unoccupied space < 6K cuft.

Which spaces: _____

☐ ☐ PRE-ENGINEERED SYSTEM: (space <6K cuft – Reviewed by MSO). (46 CFR 181.420)

CG approved packaged system sold by recognized/approved manufacturer.

CG APPROVAL NO. : _____

Which spaces: _____

☐ Manufacturer's Instructions provided with plans for review? YES NO

Manufacturer: _____

☐ ☐ PORTABLE / SEMI-PORTABLE FIRE EXTINGUISHER AFFIXED OUTSIDE SPACE:

B-II minimum size. (space <200 cuft - Reviewed by MSO). Which spaces: _____

☐ Cylinders installed in fixed position outside space.

☐ Applicator installed in fixed position to discharge into space protected.

☐ Controls installed in an accessible location outside the space protected.

☐ ☐ OPEN AIR SPACE (to be determined by OCMI). No extinguisher required.

☐ ☐ FIRE DETECTION REQUIRED? YES NO (if required, per 46 CFR 76.27)

(not required when fixed gas ext system capable of automatic discharge upon heat detection or space manned)

Required in:

☐ Propulsion machinery ☐ Internal combustion space (>50 hp) ☐ Oil fired boiler space

☐ Gasoline machinery space ☐ Gasoline fuel tank space

☐ ☐ GREASE EXTRACTION HOOD REQUIRED? YES NO (if required, per 46 CFR 181.425)

☐ Grills ☐ Broilers ☐ Deep Fat Fryers

☐ ☐ OVERNIGHT ACCOMMODATIONS SPACE? YES NO (if yes, fitted with independent modular smoke detecting and alarm unit per 46 CFR 181.450). How many spaces: _____

☐ ☐ VEHICLE SPACE? YES NO (if yes read subparagraphs (f) and (g) of this subpart).

FIXED GAS FIRE EXTINGUISHING SYSTEMS
46 CFR 181.410

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- ☐ Fixed system plans forwarded to G-MSC with rapid draft letter cover signed by CPD.
Date forwarded:_____.

PRE-ENGINEERED FIXED GAS FIRE EXTINGUISHING SYSTEMS
46 CFR 181.420

- ☐ ☐ CG APPROVAL NO._____. Listed? YES NO
- ☐ ☐ Manual actuation outside the space protected; and
☐ Drawing indicates location.
- ☐ ☐ Automatic actuation by a heat detector.
Method used: Affixed bottle unit Detached overhead unit
- ☐ ☐ Automatically shut down all power ventilation systems; and
Type of ventilation and means of closure:_____.
- ☐ ☐ Automatically shutdown all engines that draw intake air from within the protected space; and
Type of engine shutdown, by what means (electrical air flow shutdown or fuel valve solenoid).
_____.
- ☐ ☐ Be installed in accordance with the manufacturer's instructions.

Following equipment installed at the operating station and labeled on drawings:

- ☐ ☐ A light to indicate discharge;
- ☐ ☐ An audible alarm that sounds upon discharge; and
- ☐ ☐ A means to reset devices used to automatically shut down ventilation systems and engines.
☐ Method and labeled on drawing.
- ☐ ☐ Only ONE system is permitted in each protected space.

GASOLINE ENGINE – FLAMMABLE VAPOR DETECTOR (46 CFR 182.115, 410, 480)

- ☐ ☐ Enclosed space powered by gasoline must have flammable vapor detector per 182.480.
- ☐ ☐ Meets UL Standard 1110, "Marine Combustible Gas Indicators."
- ☐ ☐ Procedures for checking proper operation posted at primary operating station.
- ☐ ☐ System self monitoring and including ground fault indication alarm.
- ☐ ☐ Detector must be operational for 30 seconds prior to engine startup and operate entire time.
- ☐ ☐ Visual and audible alarm at the operating station.
- ☐ ☐ Sensor located above expected bilge level.
- ☐ ☐ Mounted in lowest part of machinery space, fuel tank space (if separate), any other OCMI location.
- ☐ ☐ Capable of calibrating in vapor free atmosphere.
- ☐ ☐ Operation and maintenance manual kept on board. ☐ ☐ Electrical components meet 183.

GALLEY HOOD FIRE EXTINGUISHING SYSTEMS (46CFR181.425)

- [] [] Meets UL 710 “Exhaust Hoods for Commercial Cooking Equipment.”
[] [] Equipped with dry or wet chemical fire extinguishing system meeting NFPA 17, 17A

INDEPENDENT MODULAR SMOKE DETECTING UNITS (46 CFR 181.450)

- [] [] Meet UL 217 and be listed as a “Single Station Smoke detector – Also suitable for use in Recreational Vehicles,” or others specified by G-MSC.
[] [] Contain independent power source and alarm on low power.

PORTABLE FIRE EXTINGUISHERS (46CFR 181.500)

- | | | |
|---|---|---|
| [] [] Operating station: | 1 | B-I, C-I |
| [] [] Machinery Space: | 1 | B-II, C-II located just outside the exit. |
| [] [] Accommodation Space: | 1 | A-II for each 2,500 sq ft. |
| [] [] Galley, Pantry, Concession Stand: | 1 | A-II, B-II |
| [] [] Open vehicle deck: | 1 | B-II for every 10 vehicles. |

This form to be filled out by the Plan Review Officer and the field Inspector. The ***first block is for Plan Review*** initials and the ***second block is for the Inspector*** to verify the system is installed as reviewed.

PLAN REVIEW OFFICER Date

MARINE INSPECTOR Date